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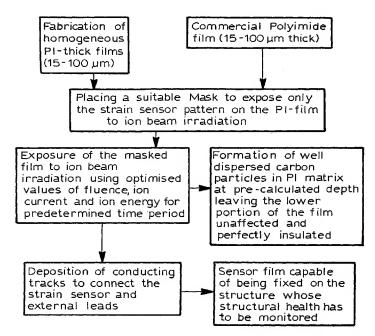
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(54) Title: FABRICATED STRAIN SENSOR



(57) Abstract: A method of forming a strain sensor from a polymeric film includes the steps of selectively irradiating a surface of the polymer with high energy radiation to change the composition of the polymer and increase the electrical conductivity in selected portions of the surface. The radiation can create carbonized particles or metallic particles within the polymer and the changes in interparticle gaps between conducting particles in the polymer will result in strain dependent electrical properties in the treated polymer.

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